

I Claim:

1. A mobile fire fighting system comprising:

a frame;

5

an operations cab attached to the frame;

a CO₂ source attached to the frame, the CO₂ source providing at least about 10,000 pounds of liquid CO₂;

a pellet generating assembly attached to the frame;

10

a first line connecting the CO₂ source to the pellet generating assembly;

a pellet distribution assembly attached to the frame;

and a second line connecting the pellet distribution assembly to the pellet generating assembly;

15

whereby, the system is capable of generating and distributing densified CO₂ to prevent or extinguish fires.

2. A mobile fire fighting vehicle comprising:

a base;

an engine;

20

an operations cab;

a plurality of rolling means;

a fuel tank;

the engine, operations cab, rolling means and fuel tanks being attached to the base;

25

a CO₂ source;

a first chamber;

a pellet densifier;

a pivot;

a boom;

30

a pellet distributor;

the CO₂ source being operationally connected to the first chamber, the first chamber being operationally connected to the pellet densifier, the pellet densifier being operationally connected to the pellet distributor; and
the pellet distributor being positioned on the boom, the boom being
5 affixed to the base through the pivot.

3. A fire fighting system comprising:
a CO₂ source;
a pellet generating assembly;
10 the pellet generating assembly capable of generating solid densified CO₂ pellets;
a pellet distributor; and,
the pellet distributor capable of distributing the solid densified CO₂ pellets at a location;
15 whereby the system is capable of generating and distributing a blanket of CO₂ pellets to cover the location.

4. A fire fighting system for protecting a structure from fire comprising:
a CO₂ source capable of holding at least about 10,000 pounds of CO₂;
20 a pellet generating assembly;
the pellet generating assembly capable of generating solid densified CO₂ pellets;
a plurality of pellet distributors, the pellet distributor capable of distributing the solid densified CO₂ pellets;
25 at least one of the pellet distributors attached to a support;
at least one of the pellet distributors attached to the structure;
whereby the system is capable of generating and distributing a blanket of CO₂ pellets to cover the structure and location adjacent to the structure with a blanket of solid CO₂ pellets.

30 5. A fire fighting system comprising:

a CO₂ source;

a pellet generating assembly;

the pellet generating assembly capable of generating solid densified CO₂ pellets;

5

a pellet distributor; and,

the pellet distributor capable of distributing the solid densified CO₂ pellets at a location;

a sensor, the sensor capable of detecting a fire and operationally associated with the system to activate the system upon detection of a fire;

10

whereby the system is capable of generating and distributing a blanket of CO₂ pellets to cover the location upon detection of a fire by the sensor.